

From Eye to Insight

*Leica*  
MICROSYSTEMS

STRAIGHTFORWARD. VERSATILE. TRUSTED.

Ivesta 3 Greenough stereo microscopes





## Ivesta 3 Greenough Stereo Microscopes

Designed to optimize inspection and rework. For tasks which require a 3D view of the sample, the optics with eyepieces enable an optimal 3D perception thanks to FusionOptics. It is also convenient to handle samples with the microscope's large working distance. As a result, you can spend less time adjusting the microscope and stay focused on your work. With the Ivesta 3 Greenough stereo microscopes, you can obtain results you can rely on, in compliance with standard procedures.



### Boost your efficiency

- > Achieve optimal 3D perception of the sample thanks to the FusionOptics technology.
- > Conveniently handle samples with a large working distance of up to 122 mm.

### Results you can rely on

- > Discuss quickly opinions and review findings with a fast live image display on a monitor.
- > Visualize sample movements on the monitor clearly and smoothly thanks to the high frame rate (up to 60 fps).
- > Switch between bright and dark samples quickly and clearly differentiate details with the fast auto exposure in the live image display.

## Individual outfits for your needs

### Ivesta 3

For observation only, when no camera is required for documentation.



### Ivesta 3 (C-mount)

Provides the flexibility to add a camera if needed, turning it into a digital microscope solution.



### Ivesta 3 (Integrated camera)

For digital image sharing directly on different devices, e.g., a monitor, mobile device, or computer.







## See relevant details faster

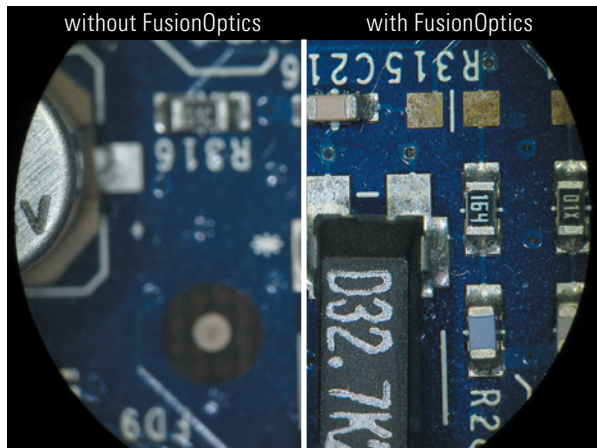


Image simulation, showing a printed circuit board sample without and with the FusionOptics effect, perceived when looking through the eyepieces.

In contrast to conventional stereo microscopes, Ivesta 3 features FusionOptics technology that unites high resolution and a large depth of field – at the same time!

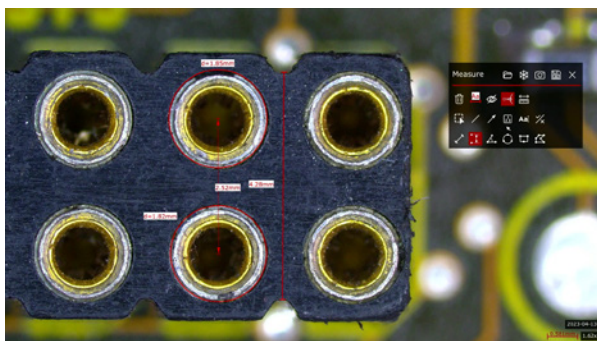
- > Save time refocusing as you can see every important detail at a glance. FusionOptics allows you to perceive your samples in 3D with up to 3x larger depth of field.
- > Change from sample overview to detail easily with the microscope's large 9:1 zoom range.
- > Reveal fine details with a magnification of up to 55x and apochromatically corrected optics.

## Consistent operation that saves you time



Any Ivesta 3 microscope with camera is powered by the Enersight software platform.

- > Inspect, compare, measure, and share seamlessly on a single intuitive interface, regardless of how or where you do it.
- > Reduce the need for training and supervision and make decisions as a team more easily.
- > Enersight software interface can be used in multiple operation modes, such as on-screen display, mobile devices, or computer.



With Enersight, you can easily add comments or conclusions about your sample. For example, you could point out specific areas of interest on a sample and add reference information to the image.



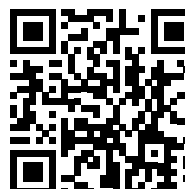
Create and store customized overlays directly on your screen with Enersight. Working with overlays provides multiple advantages, especially for recurring tasks such as checking whether parts or components fall within specified tolerances.

# Technical specifications

Characteristics	Ivesta 3	Ivesta 3 (C-mount)	Ivesta 3 (Integrated camera)
Optical system, lead-free	10° Greenough using best-corrected central part of the objective		
Zoom	9:1		
Viewing angle	35°		
Magnification range *	6.1x – 55x		
Maximum resolution	500 lp / mm		
Maximum numerical aperture	0.167		
Working distance *	122 mm		
Object field diameter *	37.6 mm		
Adjustable zoom limits *	Click-stops 10x, 20x, 30x, 40x and 50x		Fully coded zoom
Video/photo outlet	-	50 % video / 50 % visual, permanent	50 % video / 50 % visual, permanent
Weight (camera only)	1.6 kg	1.8 kg	2.2 kg
Standard objectives, lead-free	Apochromats 0.5x, 0.63x, 0.75x, 1.6x, 2.0x		
Ergonomic eyepieces, fixed and adjustable, with cups	10x/23, 16x/16, 20x/12		
Ergonomic eyepieces for eyeglass wearers, adjustable, with eyecups	10x/23, 16x/15,25x/9.5, 40x/6		
Interpupillary distance *	50 mm – 76 mm		
Operating temperature	10 °C to 40 °C (50 °F to 104 °F)		
Storage/Transport temperature	-10 °C to 50 °C (14 °F to 122 °F)		
Relative humidity for storage / operation	10 % – 90 % (non-condensing)		
Use	For indoor use only		
Pollution degree	2		
Altitude operation	0 m to 2,000 m (0 ft to 6,561 ft)		
Live image on an HDMI monitor	-	-	at up to 60 fps (3,840 x 2,160 pixels)
Full-screen image capture	-	-	at 12 MP
Sensor diagonal	-	-	7.81 mm (type 1/2.3" CMOS)
Pixel size	-	-	1.55 µm x 1.55 µm
Input	-	-	5 V DC / 3 A
Power consumption	-	-	15 W
Supported software	-	-	Energisight
Color filter	-	-	IR-cut coating 650 nm, not replaceable
File formats	-	-	JPG, TIF, BMP, MJPG; for overlays also PNG
Compatibility	-	-	USB 3.0, standard USB type C
High-definition connector	-	-	HDMI 2.0a, HDMI plug type A
USB connectors	-	-	4x USB 2 connectors, type B
ON / OFF Button	-	-	1x (on rear side of the microscope)
Multicolor status LED	-	-	1x (on rear side of the microscope)

\*Values with basic outfit (no supplementary lens, 10x/23 eyepieces)

CONNECT  
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